


The Listing of Claims:


Claims 1-32. (Canceled)

33. (Currently Amended) A CXC chemokine receptor 4 (CXCR4) agonist, wherein the agonist is ~~H-[Ala⁹-Phe¹¹]-SDF (1-14)-LINKER-cyclo(Lyx⁵⁶-Glu⁶⁰)-SDF (55-67)-NH₂, having comprising the sequence:~~


KPVLSYRAPFRFF-[LINKER]-LKWIEYLEKALN-NH₂
(residue positions 1-14 linked to residue positions 19-31 of SEQ ID NO:[S]:208)

wherein the LINKER is of the formula ~~G₄₋₄ (SEQ ID:213) or (CH₂)₁₋₂₀~~ comprises 4 natural amino acids.

34. (Currently Amended) A pharmaceutical composition [[of]] comprising the agonist of claim 33, [[of]] wherein the agonist comprises the formula:


KPVLSYRAPFRFFGGGGLKWIEYLEKALN-NH₂
(SEQ ID NO:57)

in a pharmaceutically acceptable carrier.

35. (Previously Presented) A composition of the formula:


KPVLSYRAPFRFFGGGGLKWIEYLEKALN-NH₂
(SEQ ID NO:132)

in a pharmaceutically acceptable carrier.

36. (New) An amino acid sequence having at least 95% homology to the agonist of claim 33 and having the function of binding to a CXCR4 receptor.

37. (New) A pharmaceutical composition comprising the amino acid sequence of claim 36.

38. (New) An amino acid sequence having at least 95% homology to the composition of claim 35 and having the function of binding to a CXCR4 receptor.